Center Independent Research & Development: JPL IRAD

A simple, robust Zernike phase-contrast wavefront sensor

Completed Technology Project (2012 - 2013)

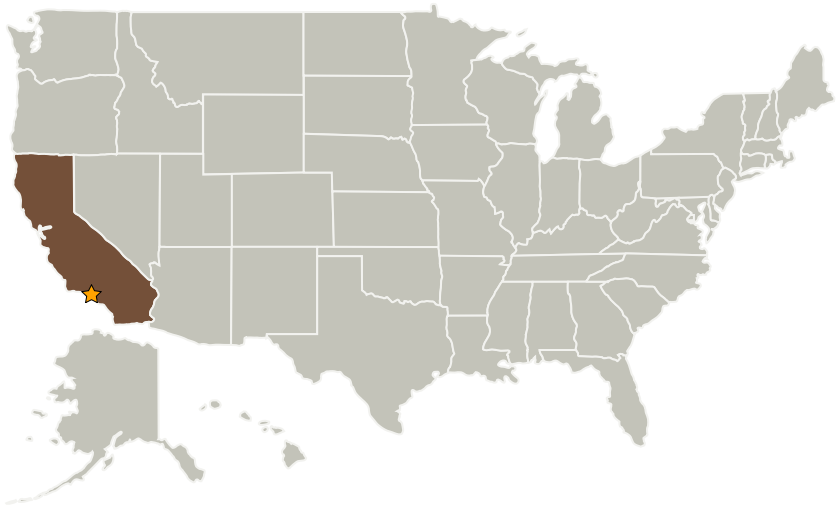
Project Introduction

Develop Zernike phase-contrast wavefront sensor for alignment of segmented telescopes using external light sources.

Anticipated Benefits

Missions will benefit from the development of Zernike phase-contrast wavefront sensor for alignment of segmented telescopes using external light sources.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Jet Propulsion Laboratory(JPL)	Lead Organization	NASA Center	Pasadena, California

Primary U.S. Work Locations
California

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Table of Contents

Organizational Responsibility

Responsible Mission Directorate:

Mission Support Directorate (MSD)

Lead Center / Facility:

Jet Propulsion Laboratory (JPL)

Responsible Program:

Center Independent Research & Development: JPL IRAD

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Completed Technology Project (2012 - 2013)

Project Management

Program Manager:

Fred Y Hadaegh

Project Manager:

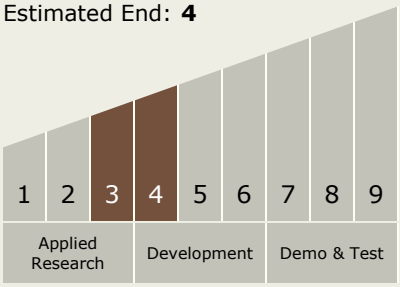
Jonas Zmuidzinas

Principal Investigator:

James K Wallace

Technology Maturity (TRL)

Start: **3**
Estimated End: **4**



Technology Areas

Primary:

- TX14 Thermal Management Systems
  - TX14.3 Thermal Protection Components and Systems
    - TX14.3.5 Thermal Protection System Instrumentation